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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,912	10/30/2001	Memphis Zhihong Yin	10017897-1	5841

7590 07/12/2004

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O Box 272400
Fort Collins, CO 80527-2400

EXAMINER

WU, XIAO MIN

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 07/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

10/015,912

Applicant(s)

YIN, MEMPHIS ZHIHONG

Examiner

XIAO M. WU

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3, 5-9, 11, 14-17, 19-24, 26 and 28-47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3, 5-9, 11, 14-17, 19-24, 26, 28-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/10/2004 has been entered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 5-9, 11, 14-17, 19-24, 26, 28-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (shown in Fig. 1) in view of Cho (US Patent No. 6,081,902).

As to claims 1, 8-9, 16-17, 22, 28, 31, 36, 40, 44, the admitted prior art (Fig. 1) shows a portable computing device (100) comprising: a graphical display (108); a power source (not shown) configured to provide power to operate the graphical display; a selectable configured (112) to initiate a shutdown of an operating system running on the portable computing device and to initiate turning off power to operate the portable computing device. For example, when the shutdown control 112 is selected, such as with a mouse or other pointing device, the operating system and any other processing on computer 100 are shut down to a point at which it

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is safe to turn off the power to computer 100, such as with push-button 110. Typically, an operating system shutdown process can also turn off the power to computer 100 if the system supports a power-off feature. In other word, the prior art shows that the display is still on during the shut down processing, and the power of the display is turned off when the shut down processing is done. The admitted prior art fails to teach a component configured to turn off the graphical display and conserve the power to operate the graphical display when the selectable control is selected and before the shutdown of the operating system running on the portable computing device is initiated.

Cho is cited to teach a shutdown processing for a computer display. Cho discloses that a micro 20 (microcomputer) first sends out a signal to cut off power to a liquid crystal display 70 and then sends out a signal to cut off power to entire system (col. 4, lines 21-24).

It would have been obvious to one of ordinary skill in the art to have modified the admitted prior art for cutting off the power to the display first before the shutdown of the operating system because the shutdown processing as taught by Cho can turn off the display without flickering and after image and thereby illuminating a risk of damaging the liquid crystal display 70. As a result, Cho's shutdown processing allows display stability and extension of lifetime of a display as well as improving display quality (col. 6, lines 7-15). Furthermore, since the display power is turned off before the shutdown processing, the power is conserved.

As to claims 3, 11, 19, 23, 29, the admitted prior art discloses that the graphical display is configured to display the selectable control (112).

As to claims 5, 21, 26, the admitted prior art discloses that the component is a graphical display controller.

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As to claims 6, 14, 20, 24, 30, the admitted prior art discloses that the component is further configured (112) to determine when the selectable control is selected.

As to claims 7, 15, the admitted prior art discloses that the component is a software application configured to determine when the selectable control is selected (e.g. using mouse or other input devices).

As to claims 32-35, 37-39, 41-43 and 45-47, the admitted prior art shows that the shutdown process configured to first turn off the graphical display, second shutdown the operating system and third shut down the computing device.

Response to Arguments

4. Applicant's arguments with respect to claims 1, 3, 5-9, 11, 14-17, 19-24, 26, 28-47 have been considered but are moot in view of the new ground(s) of rejection.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiao Wu whose telephone number is (703) 305-4721.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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or faxed to:


(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington.
VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377

Xw

July 9, 2004


XIAO WU
PRIMARY EXAMINER
ART UNIT 2674